

Amendment to the Claims:

The claims under examination in this application, including their current status and changes made in this paper, are respectfully presented.

1 (currently amended). A method of data transmission over a cable television network between a cable modem termination system headend and consumer premises equipment, comprising:

providing modulating a first digital data stream signal associated with a first cable television channel into a first sequence of digital samples corresponding to the modulated first digital data stream signal;

providing modulating a second digital data stream signal associated with a second cable television channel into a second sequence of digital samples corresponding to the modulated second digital data stream signal;

then combining the first and second sequences of digital samples data-stream signals to create a first combined digital data stream signal;

converting the first combined digital data stream signal to a modulated first analog signal, the first analog signal having a central frequency; and

upshifting the central frequency of the first analog signal to create a cable network transmittable analog signal having a frequency suited for transmission along a cable network transmission medium.

2 (currently amended). The method according to Claim 1, further comprising:

providing modulating a third digital data stream signal associated with a third cable television channel into a third sequence of digital samples corresponding to the modulated third digital data stream signal;

providing modulating a fourth digital data stream signal associated with a fourth cable television channel into a fourth sequence of digital samples corresponding to the modulated fourth digital data stream signal;

then combining the modulated third and fourth sequences of digital samples ~~data stream signals~~ to create a second combined digital data stream signal;

converting the second combined digital data stream signal to a modulated second analog signal having another central frequency; and

combining the first analog signal and the second analog signal to create a combined analog signal having a plurality of central frequencies, wherein upshifting the first analog signal central frequency comprises upshifting the central frequencies of the combined analog signal.

3 (currently amended). The method according to Claim 2, wherein digitally combining the first and second sequences of digital samples ~~data stream signals~~ comprises multiplexing the first and second sequences of digital samples ~~data stream signals~~, and wherein digitally combining the third and fourth sequences of digital samples ~~data stream signals~~ comprises multiplexing the third and fourth sequences of digital samples ~~data stream signals~~.

4 (canceled).

5 (previously presented). The method according to Claim 3, further comprising filtering the first and second analog signals prior to upshifting.

6 (canceled).

7 (previously presented). The method according to Claim 1, further comprising transmitting the upshifted first analog signal in a downstream direction from the headend to the consumer premises equipment using a bandwidth wider than bandwidth of the first or second channels alone.

Claims 8 through 27 are canceled.

28 (currently amended). The method according to claim ~~1~~ 7, wherein the first and second digital data stream signals are respectively associated with adjacent cable television network channels.

29 (previously presented). The method according to claim 28, wherein the wider bandwidth corresponds to the combined bandwidths allocated for separate transmission of the adjacent cable television network channels.

30 (currently amended). The method according to claim 1, wherein digitally combining the first and second sequences of digital samples data stream signals comprises multiplexing the first and second sequences of digital samples data stream signals.

31 (previously presented). The method according to claim 1, further comprising filtering the first analog signal prior to upshifting.

32 (currently amended). The method according to claim 1, wherein the first and second sequences of digital samples data stream signals are converted from digital to analog by means of a common digital-to-analog data converter.

33 (currently amended). ~~A The method of transmission of adjacent cable television channel broadcasts over a cable television network from a cable modem termination system headend to a consumer premises equipment, comprising: claim 1, wherein the providing a first digital data stream signal associated with a first cable television channel into a first sequence of digital samples corresponding to the modulated first digital data stream signal; providing a second digital data stream signal, associated with a second cable television network channel is adjacent to the first cable television channel;~~

~~combining and converting the first and second digital data stream signals into a modulated analog signal, the analog signal having a central frequency;~~

~~upshifting the central frequency of the analog signal to a higher central frequency;~~

and further comprising:

transmitting the cable network transmittable analog signal in a downstream direction from the headend to the consumer premises equipment along a the cable network transmission medium, using a bandwidth corresponding to a bandwidth of the combined adjacent channels.

Claims 34 through 39 are canceled.